

ABSTRACT OF THE DISCLOSURE

[117] The present invention relates to the identification of a binding between NMDA receptor (NMDA-R) subunits and a protein tyrosine phosphatase (PTP). The present invention provides methods for screening a PTP agonist or antagonist that modulates NMDA-R signaling. The present invention also provides methods and compositions for treatment of disorders mediated by abnormal NMDA-R signaling.